

Notice of Allowability

Application No.

10/500,374

Applicant(s)

MORI ET AL.

Examiner

Art Unit

Thuy V. Tran

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment submitted on 08/23/2007.
2. ☒ The allowed claim(s) is/are 1,3-5,8-11 and 17.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


THUY V. TRAN
PRIMARY EXAMINER

DETAILED ACTION

This Office Action is in response to the Applicants' amendment submitted on 08/23/2007. In virtue of this amendment:

- Claims 2, 6-7, and 12-16 have been canceled; and thus,
- Claims 1, 3-5, 8-11, and 17 are now presented in the instant application.

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

This Examiner's Amendment is made to update the continuing data of the instant application based on the information provided by the Applicants. It includes:

Page 1 of the specification, below the title and "Technical Field", insert:

--This Application is a National Phase Application under 35 U.S.C. 371 claiming the benefit of PCT/JP02/13728 filed on 12/26/2002, which has priority based on Japan Applications No. 2001-400238 filed on 12/28/2001 and 2002-91976 filed on 03/28/2002.--

Reasons for Allowance

2. Claims 1, 3-5, 8-11, and 17 are allowed.
3. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A luminance control method for organic electroluminescence display characterized by comprising a first step of calculating a luminance accumulation value for each

- frame on the basis of a video input signal, and in the second step, the amplitude of the video input signal is controlled, when the luminance accumulation value calculated in the first step exceeds a predetermined value, such that the larger the difference between the luminance accumulation value and the predetermined value is, the smaller the amplitude of the video input signal becomes, in combination with the remaining claimed limitations as called for in independent claim 1;
- A luminance control method for organic electroluminescence display characterized in that, in the second step, a reference voltage supplied to a digital-to-analog converter for converting the digital video input signal into an analog video signal is controlled on the basis of the luminance accumulation value in the first step, to control the amplitude of the video input signal, in combination with the remaining claimed limitations as called for in independent claim 3 (claim 4 is allowed since it is dependent on claim 3);
 - A luminance control circuit for an organic electroluminescence display comprising a digital-to-analog converter for converting a digital video input signal into an analog video output signal on the basis of input/output characteristics defined by a given reference voltage, and feeding the analog video output signal to the organic electroluminescence display, and a reference voltage control circuit for controlling a reference voltage supplied to the digital-to-analog converter on the basis of the digital video input signal, and in that the reference voltage supplied to the digital-to-analog converter includes a black-side reference voltage for defining a light emitting luminance corresponding the a black level of the input signal and a white side

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reference voltage for defining a light emitting luminance corresponding to a white level of the input signal, in combination with the remaining claimed limitations as called for in independent claim 5 (claims 8-11 are allowed since they are dependent on claim 5); and

- An apparatus for receiving video input signals and transmitting video output signals, wherein the apparatus comprises a luminance accumulation calculation portion configured for calculating a luminance accumulation for each frame, as a first function of the video input signals, a gain calculation portion configured for calculating a gain, as a second function of the luminance accumulation and a predetermined value, and wherein the gain decreases if the luminance accumulation exceeds at least one predetermined value, and a generating portion configured for generating controlled white-side reference voltages, as a third function of black-side reference voltages, white-side reference voltages, and the gain, in combination with the remaining claimed limitations as called for in independent claim 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

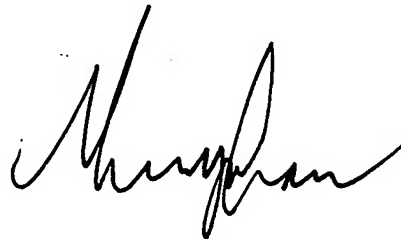
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -4:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Owens Douglas can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

08/28/2007

A handwritten signature in black ink, appearing to read 'Thuy V. Tran', with a stylized, cursive script.

**THUY V. TRAN
PRIMARY EXAMINER**